MR-FORM 2 Page 1 of 6. CHOICEA PACIFIC CORPORATION SIGURD, UTAH 84657
PHONE 896-5406
SUBMITTED BY J.B. CARTER
ON FANGARY 26 1981 TO THE

MINING	APPLICATION
NO.	
Date	

## United States Department of the Interior

BUREAU OF LAND MANAGEMENT RICHFIELD DISTRICT OFFICE 150 East 900 North Richfield, Utah 84701 MAR 0 190 FFB 2 6 1981

MINING AND RECLAMATION PLAN

(Other forms may be used in lieu of MR 2, provided they contain the same information)

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OIL, and a	1750		
	Training	167	
	Area		

- 1. Name of Applicant or Company Georgia-Pacific Corporation
- 2. Proposed Type of Operation Continuation of gypsum quarrying
- 3. (a) Prior Land Use(s) None, except for occasional grazing by sheep and wildlife in the limited areas of higher density vegetation.
  - (b) Current Land Use(s) Ditto plus gypsum quarrying operations.
  - (c) Possible or Prospective Future Land Use(s) As in 3(a) above.
- 4. What vegetation exists on the land proposed to be affected Sparse growth of trees, shrubs and grasses characteristic of the arid climate and the rugged and rocky terrain.

Types and Estimated Percent Cover or Density - The percent of total vegetative cover is estimated to be less than 5% and is comprised primarily of cedar, pine, sagebrush, saltbush, yellowbrush, bitter brush and Indian rice grass.

- 5. What is the range pH of soil before mining? 8 pH.

  Name of Person or Agency and method of determining pH Soil Conservation
  Service Colorimetric method.
- 6. Site Elevation above sea level 5600 ft. +
- 7. In case of coal, oil shale, and bituminous sandstone: Principal seam(s) and thickness(es) Not applicable
- 8. Estimated duration of mining operations 20 years
- 9. Has overburden waste or rejected materials been classified as acid or alkali producing? No.

  Does the above material being moved have any other characteristics affecting revegetation? No.
- 10. Will any underground workings or aquifers be encountered? No.

Is there an active discharge of water from abandoned deep mines on or crossing the land affected? No.

# 11. Topography, Geology, Rock and Soil Characteristics

As is evident in the various drawing exhibits, much of the affected area shows considerable relief, the gypsum generally outcropping on the top or otherwise lying on one flank of hogbacks, ridges and hills.

The gypsum occurs in the middle part of the Arapien shale formation of Jurassic age. The rock strata are complexly faulted and folded in "en echelon" folds that trend to the north-northeast.

Country rock in the affected area is mostly comprised of calcareous grey and red siltstones and shales. Surficial materials, other than gypsum, are mostly shale and siltsone fragments, clay and gypsite, the weathered products of the rock strata.

## 12. Vegetation and Re-vegetation

Because of the nature of this surficial material, the rugged topography, and the semi-arid climate (average annual precipitation of 8-1/2 inches), the affected land is mostly barren with but a sparse growth of vegetation.

In areas where surficial materials were disturbed through the years by previous gypsum quarry site and access road preparation work, there now appears to be more native vegetation than previously existed. This is believed to be due to the comminution and degradation of the fragmented shales and mudstones by the tractor-dozers and the resultant increase in the clay-like content of the surface material.

To promote more such growth in areas of future operations, we plan to do more re-grading of such disturbed materials on the flatter terrain and more gentle slopes where tractor-dozers can be safely used and to work cooperatively with the local Soil Conservation Service in an effort to accelerate vegetative growth, if possible, by reseeding.

## 13. Mining Methods and Sequence

As the gypsum deposits outcrop at the top or along the flank of ridges and hills, quarrying is started at the top by mining a "bench" (having a face heighth of not more than 20 feet) along the width and length of the deposit. Successive 20 foot benches are similarly quarried until excessive anhydrite or other deleterious minerals are encountered that render the rock unusable or until the quarry "bottoms" in clay, siltstone or shale, as sometimes occurs.

To develop such a quarry, a haul road is first constructed to the deposit, from which a temporary "drill road" is bulldozed to the top of the gypsum. Vertical blastholes, not exceeding 20 feet in depth, are drilled from the top of the deposit and blasted. The broken rock is then loaded into the quarry trucks by a front end loader and hauled to the plant site for stockpiling and subsequent processing.

All such mining operations, including road construction and site preparation will continue to be conducted in accordance with applicable codes

Page 3 of 6.

215-2 V 11 6

and regulations, with particular emphasis on the safety of personnel and the proper maintenance of the equipment.

### 14. Access Roads

Access roads are constructed where necessary by a tractor-dozer. In the flatter terrain of the area, most roads were constructed years ago as mining claim assessment work or as access roads to former quarry sites. As and when it is necessary to haul over these roads, some regrading and improvement will be required in certain areas, as indicated on the pertinent exhibits. In and near the gypsum areas, that are characterized by more topographic relief, new access roads will be constructed (in many places along pre-existing "jeep roads") up valleys and hillsides to the higher ground levels where quarrying is to be done.

Because of the nature of the surficial materials along the route of these roads, a sub-grade of such materials is generally sufficient for haulage purposes, although a top dressing or final grading of shale is used in places for added durability.

The profiles and cross-sections of these roads vary widely depending upon the terrain. Road widths will approximate 35 feet and because of the semi-arid climate can be constructed in the flatter or more gently sloping areas by simply grading with a tractor-dozer. Where roads must be constructed up the steeper hills, it is usually done by a sidehill cut and fill method in which a tractor-dozer cuts a notch along the hillside and sidecasts the spoil to the low side. Road gradients vary widely according to the terrain.

#### 15. Site Preparation

Site preparation primarily consists of constructing the road to the top of the gypsum bed to permit access of the drill and haul roads to the quarry benches, as they are developed. Where any surface veneer of gypsite or other material needs to be first removed to maintain required rock purity, it is pushed aside by a tractor-dozer. Where practical, such material will be pushed onto flat or gently sloping terrain where it can be graded and seeded. The trees and shrubs in such areas, in addition to being sparse, are generally that small that they are decimated by the tractor-dozer and mixed with the spoil.

## 16. Removal and Stockpiling of Surficial Materials

This will be done as mentioned in Item 13, above.

### 17. Placement or Containment of Disturbed Materials

Where practical, all disturbed materials will be retained on level or gently sloping terrain where they can be re-graded and seeded. When operating along the peaks of ridges or on the flank of hogback type hills, (where the quarry floor that is to be worked downward in descending horizontal benches cannot be encumbered with surficial materials), such materials are pushed onto the almost barren slopes of the hillsides. In such areas, gypsum "fly-rock" from blasting and "spillage" of gypsum rock over the hillside edge of the quarry benches sometimes results in the deposition of

gypsum fragments and boulders on hillsides that are too steep to permit reclaim of such material by mobile equipment. In the past, where such gypsum material could be reached at or near the foot of slopes by dozing a temporary road to the foothill area, it was reclaimed to maximize recovery of the rock. Although presently indeterminate, there may prove to be some locations where such foothill recovery of gypsum rock may be required in future.

No known acid, alkali-producing or toxic materials are present in the area to be affected.

#### 18. Stabilization of Disturbed Materials

All grading of disturbed materials will be done in a manner that will provide stability prior to any seeding of the area.

#### GRADING AND REGRADING

### . 19. (a) Typical Cross-Section of Regrading

Because of the greatly varying physiography of the area to be affected, and because of the varying modes of occurrence of the gypsum deposits, there is no typical cross-section of regrading. Additionally it is generally not known, when mining of a deposit is initiated, how many benches can be mined before encountering excessive impurities or country rock.

### (b) Spreading of Surficial Materials

Disturbed surficial material on the more gentle slopes and flat terrain will be regraded by a tractor-dozer. The removal of such material will be kept to a minimum and will be spread in thickness of one foot or more.

- (c) No soil treatment is contemplated but if experience proves that revegetation is materially aided by the use of fertilizer, it will be used.
- (d) Because of the minor amount of precipitation in the area, no particular drainage control has been required through the years in our Sevier County gypsum quarry areas. The quarry areas show much relief before quarrying is done and the amount of run off and drainage patterns are not materially changed by the quarry operations.
- (e) Dump and road fill slopes will not exceed 50°. Elsewhere an effort will be made to not exceed the maximum natural slopes of the original or adjacent terrain.

#### TESTING

### 20. (a) Stability of Reclamation Fill Material.

The stability of the reclamation fill material is known from many years of quarrying in the area.

#### (b) Soil Testing

It is planned to work cooperatively with the Soil Conservation Service in an effort to determine the practicality and optimum methods of revegetating those affected areas where sufficient clay occurs with the rocky surface materials to support some vegetation. The pH and other characteristics of the surficial mix will be checked as part of any such program.

No revegetation has been attempted to date. In consideration of the climactic, topographic, and soil conditions in the areas to be affected, it is not certain that revegetation will prove advantageous or warranted, but an on-going program of re-vegetation will be attempted and, if successful, continued as an integral part of the operation.

#### (c) Soil Treatment

As indicated in 19(c), above, soil treatment will be used if required and we would anticipate that it would be such as recommended by the Soil Conservation Service and found beneficial.

(d) Surface Preparation of Areas Intended to Support Vegetation

· Such areas will be scarified, if necessary, and properly graded prior to revegetation.

#### REVEGETATION

- 21. (a) Revegetation will be done by conventional or rangeland drilling,
  - (b) It is not expected that mulch will be used.
  - (c) Revegetation Plan and Schedule

As can be seen from the Exhibits, affected areas will be facing all directions.

Seeding will be done during the Fall months.

The species of seeds and the rates of application will depend upon the results achieved. It is expected that initial reseeding programs will include test plots of the following plantings:

Species	Rate/Acr
Four Wing Salt Bush	6 lbs.
Siberian Wheat Grass	8 lbs.
Indian Rice (if available)	10 lbs.
Bitter Brush	4 lbs.

Regrading and revegetation will be done concurrently with quarry operations and will be completed within one year after completion of quarrying of a deposit.

- (d) Little grazing is done in the area. If it presents any problems, attempts will be made to minimize it as long as necessary.
- (e) No irrigation will be used.
- (f) If revegetation proves practical, reseeding will be done as necessary to achieve proper results.

I, the undersigned Operator, hereby submit this to be my Reclamation and Mining Plan for the area shown on the attached map. I further understand that the operation will be conducted in accordance with the Mined Land Reclamation Act of 1975, and all rules and regulations currently in effect thereunder.

the regulations currently in effect thereunder.	
Signed Effects: Operator Date Grane 22, 1977	
E. 37 Cole, Chier Mining Engineer	-
Taken, subscribed and sworn to before me the undersigned authority in my scounty, this 2200 day of	aid
Notary Public Blanch 721 72	11 .

My Commission Expires: 0.2-22-80

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BUREAU OF LAND MANAGEMENT RICHFIELD DISTRICT OFFICE 150 East 900 North Richfield, Utah 84701

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I, the undersigned Operator, hereby submit this to be my Reclamation and Mining Plan for the area shown on the attached map. I further understand that the operation will be conducted in accordance with the Mined Land Reclamation Act of 1975, and all rules and regulations currently in effect thereunder.

Signed : Operator Date Grane 22 1977  E. J. Cole, Chief Mining Engineer
Taken, subscribed and sworn to before me the undersigned authority in my said county, this 22nd day of June, 1977.
Notary Public Charatine M. 711, 12 mg
My Commission Expires: 12-22 00

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JBCARTER

RO-DATA

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23 5	1 W 8 SE	41 5 53584 PL	KING MEADOW #11	BEST WALL GYPSUM CO		11;442	9/12/1960	
	SE	53585 PL	KING MEADOW \$12	BLACKHAM R D BEST WALL GYPSUM CO		11:442	9/12/1960	1986
	SE	53586 PL	KING MEADOW \$15	BLACKHAM R D BEST WALL GYPSUM CO		11:443	9/12/1960	
	9 NW	136356 LD	HONEY DEW	BLACKHAM R D FLINN E L BREINHOLT LEO	136356	106;614		
	NÉ	290176 PL	HONEY DEW	BREINHOLT LEO BREINHOLT LEO	290176	208;142	11/02/1974 5/28/1986	1980
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	29 SW	120097 PL	CAROLE ANN \$13	FULLHER ARNOLA B	120085	12:451	9/02/1970	
	NM NM	120098 PL	CAROLE ANN \$14	FULLMER ARNOLA B FULLMER DON W FULLMER ARNOLA B	120085	12:451	9/02/1970	
	30 NE	120099 PL	CAROLE ANN \$15	FULL MER DON W	120085	12:451	9/02/1970	
	Nr.	120100 PL	CAROLE ANN \$16	FULLMER DON W	120085	12:452	9/02/1970	
27 5	1 W 5 NE	31 120093 PL	CAROLE ANN	FULLMER ARNOLA B FULLMER DON W FULLMER ARNOLA B	120085	"R":455		
	SW	177601 LD	BICENTENIAL .	MALL DRY RAY	177187	W:456	9/02/1970	
	SW	177602 LD	BICENTENIAL "3	MALLORY RUTH MALLORY RAY	A PARTIE OF		6/20/1976	
	SW	177604 LD	BICENTENIAL &	MALLORY RUTH MALLORY RAY	177107	W:457		1979
	6 SE	177604 LD	BICENTENIAL &	MALLORY RUTH MALLORY RAY	177187	W:459	6/20/1976	
	SE		BICENTENIAL &	MALL ORY RUTH	177187	W;459	5/20/1976	1979
	SE			MALLORY RUTH	177187	W;461	6/20/1976	1979
	SE			MILIRI KIIIH	177187	W:463	6/20/1976	1979
				MALLORY RAY  YET BE LISTED ON THI ED SPACE: THEREFORE I AN ABANDONED CLAIM.	177187	W:465	6/20/1976	1979

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AMERICAN MICHO-DATA

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		SW		139496	LD	CRYSTAL	CACITE NO S	MEHHOT	S MARIL RALPH C		210;58	8/20/1947	1981
22 S	1 W 1	3 SW SW SW	41	53573 53574	MS LD	GABUS #1 GABUS #2 GABUS #3		MEHHOT GEORGIA	MERRILL G S MARIL -PACIFIC CORP		11:649	9/01/1966 9/01/1966	1986
23.5	1 W 2	SW 1 NW 5 NE		53574 53575 53576 53576 53596 53597		GABUS &4 GABUS &4 GABUS &4 WESTERN				- Mr.,	11:649 11:650 11:650 11:650	9/01/1966	1986
		NE SE		53597 53598 53599	PL	WESTERN .	815	WESTERN	GYPSUM CO		11:650 9:471 9:471 9:472	9/01/1966 11/04/1954 11/04/1954 11/04/1954	1986
		NE SE SE SE		53600 53601 53602	PL	WESTERN WESTERN WESTERN WESTERN	217 218 219	and the second			9:472 9:472 9:472 9:472	11/04/1954 11/04/1954 11/04/1954 11/04/1954	1986 1986 1986 1986
		SW		53603 53604 53605	PLI	WESTERN WESTERN	21	BEST WA	LL GYPSUM CO		9;480 9;479 11:415	11/04/1954 11/09/1954 11/09/1954 6/02/1960 7/15/1960	1986 1986 1986 1986
	8	SW SE SW		53606 53607 53578	0 1	WESTERN WESTERN KING LAC	541	GEORGIA BEST WA	-PACIFIC CORP LL GYPSUM CO		11:422 11:423 12:269 11:434	7/15/1960 7/15/1960 5/06/1969 8/30/1960	1986 1986 1986
		SW		53579		KING MEAD		FITNNE	M R D LL GYPSUM CO		11:435		1986
		SW		53580	PL H	KING MEAD	00M \$4	FINNE	M R D LL GYPSUM CO			8/30/1960	
		SW		53581		KING MEAD		BL ACKHA			11:435	8/30/1960	
		SW		53582	1	KING MEAN		FLINN F	L GIPSUH CO		11:435	8/30/1960	
		SE		53583	1	KING MEAD		FINNE	H R D		11;441	9/12/1960	
0.7.00	001.00			L	/			BLACKHA!	MRD			9/12/1960	
ELANK L	AR ON THE	E LOCATI	ORMATI ON NOTI YEAR I	ON RECEI' CE OR ARI N THIS RI	ABBF PORT	N THIS OF REVIATED DOES NOT	FICE MAY NO TO FIT LIM CONSTITUTE	OT YET BE LIED SPACE AN ABAN	LISTED ON THE E: THEREFORE TO DONED CLAIM.	IS REPORT	NAMES A	AND ADDRESSE AR IN THE EX	S ARE ENTERED AS PECTED SEQUENCE
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35 S REPORT DATE: F MERIDIAN: SALT LAN - -LEGAL DESCRIPTI TWNSHP RANGE SEC 35 S 1 W 22 38 S 1 W 17